



PATENT  
Attorney Docket No. 32419

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: BELAIR ET AL.

Application No. 10/722,314

Group Art Unit: 2195

Confirmation No. 9299

Examiner: MENG AI T AN

Filed: November 25, 2003

For: Gang Scheduling Among One or More Components or Systems

<b>CERTIFICATE OF MAILING OR TRANSMISSION</b>	
I hereby certify that this paper is being deposited with the United States Postal Service on the date shown with sufficient postage as first class mail in an envelope addressed to: Commissioner For Patents, PO Box 1450, Alexandria VA 22313-1450, or being facsimile transmitted to the USPTO, 571-273-8300, on January 13, 2006.	
Kirk D. Williams, Esq.	1/13/06

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Alexandria, VA 22313-1450

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, the references listed on the enclosed Form PTO-1449 are submitted for consideration by the Examiner in the examination of the above-identified patent application. The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her initials in the appropriate area on the enclosed Form PTO-1449, thereby indicating the Examiner's consideration of each of the references.

A bona fide attempt is made to comply with §§ 1.97-98. The filing of this information disclosure statement should not be construed as a representation that a search has been made, nor is it to be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56(b). Additionally, the submission of this IDS is for the purpose of providing a complete record and is not a concession that the references are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so. Furthermore, the submission of the references is not to be taken as a concession that any reference represents art that is relevant or analogous to the claimed invention. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

**The Information Disclosure Statement is being filed:**

- Under § 1.97(b): (1) within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d); (2) within three months of the date of entry of the national stage as set forth in § 1.491 in an international application; (3) before the mailing of a first Office action on the merits; or (4) before the mailing of a first Office action after the filing of a request for continued examination under § 1.114.
- Under § 1.97(c): after (1), (2), or (3) above (i.e., after paragraph (b)) and before the mailing date of any of a final action under § 1.113, a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application, and is accompanied by:
- the statement specified in 37 C.F.R. § 1.97(e):
    - Each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement; or
    - That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement.
  - the fee set forth in 37 C.F.R. § 1.17(p) (see "Fees" below).
- Under § 1.97(d): after the period specified in § 1.97(c) and before payment of the issue fee, and is accompanied by:
- the statement specified in 37 C.F.R. § 1.97(e):
    - Each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement; or
    - That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement.
  - the fee set forth in 37 C.F.R. § 1.17(p) (see "Fees" below).

In re BELAIR ET AL.  
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**Copies Of The References**

- Enclosed herewith are copies of the references listed on the enclosed Form PTO-1449. A concise explanation of the relevance, as it is presently understood by the individual designated in § 1.56(c) most knowledgeable about the content of the information, of each patent, publication, or other information listed that is not in the English language is included either separate from applicant's specification or incorporated therein. Furthermore, a copy of the translation of a non-English language reference is included herewith if a written English-language translation of a non-English-language document, or portion thereof, is within the possession, custody, or control of, or is readily available to any individual designated in § 1.56(c).
- A copy of a foreign search report is enclosed herewith.
- Copies of one or more cited pending US Applications are not provided as the application(s) are in the Image File Wrapper (IFW) system. As such, copies are not required per *Waiver of the Copy Requirement in 37 CFR 1.98 for Cited Pending US Patent Application*, 1287 Off. Gaz. Pt. Office 163 (October 19, 2004).
- Per 37 C.F.R. § 1.98(d), copies of the references listed on the enclosed Form PTO-1449 are not provided as they were previously submitted to, or cited by, the Office in an earlier application, and (1) the earlier application is properly identified in the information disclosure statement and is relied on for an earlier effective filing date under 35 U.S.C. 120; and (2) the information disclosure statement submitted in the earlier application complies with paragraphs (a) through (c) of this 37 C.F.R. § 198. The details of the parent application(s) relied upon for an earlier filing date under 35 U.S.C. § 120 in which copies of the references were previously furnished are set out below:

U.S. APPLICATIONS		Status ( <i>check one</i> )		
U.S. APPLICATIONS	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
1.				
2.				
3.				

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**Fees**

- No fee is owed by the applicant(s).**
- The IDS Fee of \$180.00 was already paid today with the submission of an electronic Information Disclosure Statement (eIDS) Filed today with ePAVE, so NO additional fee is believed due. A copy of the eIDS fee transmittal is included herewith.
- The IDS Fee of \$180.00 is due. (Fee code 126.)  
 Please charge my credit card for the fees due (form PTO-2038 included herewith).  
 Charge Deposit Account No. 501430 in the amount of \$180.

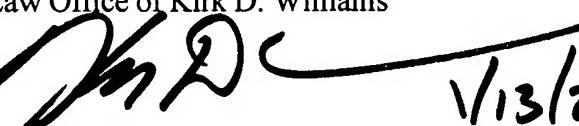
**Authorization To Charge Additional Fees and Credit any Overpayment**

- If any additional fees are owed in connection with this communication, please charge Deposit Account No. 501430.
- Credit Account No. 501430 for any overpayment in connection with this communication.

Date: January 13, 2006      Respectfully submitted,

The Law Office of Kirk D. Williams

By



1/13/2006

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
MODIFIED PATENT AND TRADEMARK OFFICE

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet	1	of	2	Application Number	10/722,314
				Filing Date	November 25, 2003
				First Named Inventor	Stephen Belair
				Group Art Unit	2195
				Examiner Name	Meng Ai T An
				Attorney Docket No.	32419

### PENDING U.S. PATENT APPLICATIONS

EXAMINER'S INITIALS	Cite No.	Application Number	Filing Date (MM-DD-YYYY)	Name of Applicant
	AA	10/721,939	11-25-2003	Mamillapalli et al.

### FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	Cite No.	Foreign Document Identification	PUBL. DATE (MM-DD-YYY)	Name of Patentee or Applicant of Cited Document	TRANSLATION	
					YES	NO
	AB	WO 02/039667 A2, A3	05-16-2002	Fast-Chip, Inc.		
	AC	EP 1 085 723 A2, A3	03-21-2001	Kabishiki Kaisha Toshiba		
	AD	WO 02/09307 A1	01-31-2002	Pluris, Inc.		

Examiner Signature	Date Considered

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Application Number	10/722,314		
Filing Date	November 25, 2003		
First Named Inventor	Stephen Belair		
Group Art Unit	2195		
Examiner Name	Meng Ai T An		
Sheet	2	of	2
		Attorney Docket No.	32419

**OTHER DOCUMENTS**

EXAMINER'S INITIALS	Cite No.	Include name of the author (in capital letters), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	BA	HELEN D. KARATZA, A Simulation-Based Performance Analysis of Gang Scheduling in a Distributed System, Department of Informatics, Aristotle University of Thessaloniki, 54006 Thessaloniki, Greece.
	BB	DA SILVA ET AL., Improvements in Parallel Job Scheduling Using Gang Service, Laboratoire ASIM, LIP6, Université Pierre et Marie Curie, Paris, France, Dept. Of Information and Comp. Science, University of California, Irvine, CA 92697, U.S.A.
	BC	WISEMAN ET AL., Paired Gang Scheduling, IEEE Transactions on Parallel and Distributed Systems, Vol. 14, No. 6, June 2003.
	BD	FRACHTENBERG ET AL., Gang Scheduling with Lightweight User-Level Communication, IEEE Proceedings of the 2001 International Conference on Parallel Processing Workshops.
	BE	ZHANG ET AL., Improving Parallel Job Scheduling by Combining Gang Scheduling and Backfilling Techniques, Department of Computer Science & Engineering, The Pennsylvania State University, University Park PA 16802, U.S.A., IEEE, 0-7695-0574-0, 2000.
	BF	FRANKE ET AL., Gang Scheduling for Highly Efficient Distributed Multiprocessor Systems, Proceedings of the 6th Symposium on the Frontiers of Massively Parallel Computation, IEEE, 1996.
	BG	HELEN D. KARATZA, Gang Scheduling Performance on a Cluster of Non-Dedicated Workstations, Proceedings of the 35th Annual Simulation Symposium, IEEE, 2002.
	BH	COULOURIS ET AL., Distributed Systems Concepts and Design, Third Edition, Addison-Wesley, Sect. 4.5.1, pp. 154-58, Ch. 11, pp. 419-64, 2001.

Examiner Signature		Date Considered	
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